

RRRRRRRR

RRRRRRRR

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RR RR

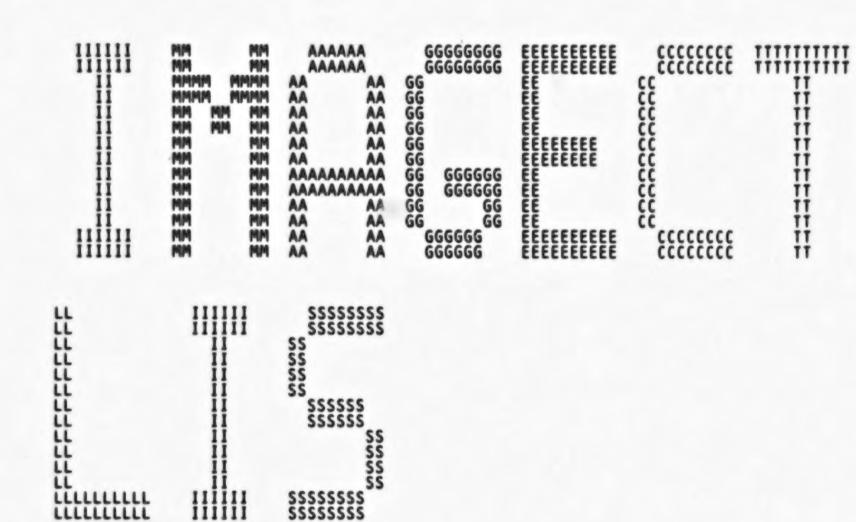
RR RR

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IMAGECTRL Table of contents	- IMAGE CONTROL	J 11	15-SEP-1984 23:53:05	VAX/VMS Macro V04-00
(3) 85 (4) 113 (5) 160 (6) 240 (7) 260 (8) 294 (9) 355 (10) 405	CONTINUE IMAGE EXECUTION DEBUG IMAGE EXECUTION STOP IMAGE EXECUTION TEST PREVIOUS MODE SAVE/RESTORE IMAGE PRIVILEGES RUN DOWN IMAGE AND INDIRECT LEVELS SHUT DOWN IMAGE RMS RUNDOWN AN IMAGE			

Page

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16 :

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.TITLE IMAGECTRL - IMAGE CONTROL

K 11

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IMAGE CONTROL DCLS COMMAND EXECUTION

CONTINUE IMAGE EXECUTION DEBUG IMAGE EXECUTION STOP IMAGE EXECUTION

D. N. CUTLER 4-APR-77

MODIFIED BY:

V03-006 HWS0071 Harold Schultz 04-Jun-1984 When finished with skipping data records in the input stream of an image being run down, set EOL in the input buffer following the last record read.

V03-005 HWS0036 Harold Schultz 21-Mar-1984
Use PRC_V_IRUNDWN to indicate whether or not an image has been run down by DCL

V03-004 HWS0026 Harold Schultz 09-Mar-1984 When shutting down an image, check if device is a record-oriented device rather than a terminal.

V03-003 PCG0005 Peter George 15-Jun-1983 Create DCL\$RMSRUNDWN.

V03-002 PCG0004 Peter George 24-feb-1983 Remove SETBIT WRK_V_NOSTAT from CONTINUE and STOP.

V03-001 PCG0003 Peter George 21-Jan-1983

IMAGECTRL VO4-000 - IMAGE CONTROL

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15-SEP-1984 23:53:05 VAX/VMS Macro V04-00 4-SEP-1984 23:41:00 [DCL.SRC]IMAGECTRL.MAR;1

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Remove code that is duplicated in DCL\$LOGOUT from DCL\$STOP.

58 :

60 ;---

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(2)

(3)

IMAGECTRL

V04-000

DELETE PROCESS

79 D4 0085 216 40\$: CLRL -(R9)

:CLEAR PROCESS IDENTIFICATION

IMAGECTRL V04-000				STOP	AGE CO	NTROL EXECU	UTION		D 12	15-SEP-198 4-SEP-198	4 23:53:05	VAX/VMS	Macro VO4-00 JIMAGECTRL.MAR;	Page	(5
		57 55	58 00 26 FF6E' 51	DO D1 12 30 7D D7 19	0087 0088 0088 00995 00997 00977 00977 0097 00977 00977 00977 00977 00977 00977 00977 00977 00977 00977 0097	7890123456789012345678 22122222222222233555578	50\$:	MOVL CMPL BNEQ BSBW MOVCL BLSSC BLSSC BULL ADECL BRBW CMPL BNEQ CMPQ CMPQ	R8 R7 #PTR_K_ 70\$ DCL\$GET R1 . R2 R2 60\$	COMDQUAL,R5	SAVE	VALUE PAR	F SCRATCH DESCR IER SPECIFIED? METERS AMETERS CTERS TO CONVER		
	FF61 CF	10 69 69	83 23 10 50 69	3A 13 CO D7	0099 009F 00A1 00A4 00A7	225		ELSS LOCC BEQL MULL ADDL DECL	(R3)+,# 80\$ #16,(R9) R0,(R9) (R9) 50\$	716,HEXTAB	SCAL	E ACCUMULATION NEXT DI	CTERS TO CONVER CHARACTER MATO YNTAX ERROR TED RESULT GIT HARACTER COUNT	B	
		55 68	FF52* 04 02 57 51	30 01 12 04 70	00AB 00AE 00B1 00B3 00B5	230 233 233 233 234	60\$: 70\$:	BSBW CMPL BNEQ CLRL MOVQ		ENDLINE,R5	: END : IF N : CLEA : SAVE	PROCESS N	OR ADDRESS AME PARAMETERS		
				05 05	00C3 00C4 00CB	236 237 238	80\$:	RSB STATUS RSB	IVVALU	, (K/)		TE PROCESS INVALID VA	LUE SYNTAX STAT	us	

IMAGECTRL V04-000		- IF	AGE CON	ITROL	DE		E 12	15-5 4-5	EP-19	84 23:53:(84 23:41:(05	AX/VMS	Macro C][MAGE	V04-00 CTRL.MAR;1	Page	8 (6)
			0000	340		SBTTL	TEST	PREVIOUS	MODE							
			0000	243	SUBR	COUTINE TO	TEST	PREVIOUS	MODE	AND DISAE	BLE	ONTROL	Y AST			
	0A 68 AB 0B 05 00 BB 18 6B F8 AA	ES E1 70 05	00CC 00CC 00CC 00CC 00CC 00DO 00D5 00DA 00DE	245 245 247 248 251 251	TESTMO	SETBIT BBCC BBC MOVQ RSB	PRC V #PRC #PSL! WRK_L	V DISABL V YLEVEL BV CURMOD _SAVAP(F	PRC W PRT PRT (aprt (10), P	FLAGS(R1) D FLAGS(R1) C SAVAP(RC_L_SAVAP	ST PI 1) ;[111) R115 P(R1	REVIOUS DISABLE 10\$; IF 10\$; II	MODE CONTRO CLR, N F CLR, TORE AR	L Y AST OT AT CONTE PREVIOUS ME GUMENT AND	ROL Y/C DDE SUPE FRAME F	LEVEL RVISO OINTE
			00DF 00DF	253 254	PREV	IOUS MODE	SUPER	RVISOR								
	8E	05 05	000E 000F 000F 000F 000F 000F 000E 000E	255 256 257 258	10\$:	TSTL STATUS RSB	(SP)						FROM S N STATU			

RSB

OOE8 CB

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```
.SBTTL RUN DOWN IMAGE AND INDIRECT LEVELS
                                                                                                          DCL$RUNDOWN - RUN DOWN IMAGE AND INDIRECT LEVELS
                                                                                                          THIS SUBROUTINE IS CALLED TO CHECK WHETHER INDIRECT LEVELS SHOULD BE RUN DOWN AND TO CLOSE RMS-32 FILES AND RUN DOWN THE PREVIOUS IMAGE.
                                                                                                          INPUTS:
                                                                                                                             NONE .
                                                                                                          OUTPUTS:
                                                                                                                            IF THE CURRENT LEVEL IS CONTROL Y/C, THEN ALL INDIRECT FILES ARE UNSTACKED. IF THE PREVIOUS MODE WAS USER, THEN THE USER IMAGE EXIT HANDLERS ARE EXECUTED. THE PREVIOUS IMAGE IS ALWAYS RUNDOWN.
                                                                                         310
311
                                                                    01
01
01
                                                                                                                              .ENABL LSB
                                                                                                     DCL$RUNDWN1::
                                                                                                                                                                                                                               RUN DOWN BUT PRESERVE INDIRECT LEVEL
                                                                                                                                                     B^20$,R0
                                                                                                                                                                                                                               SET EXIT HANDLER RETURN ADDRESS
                                                                                                                             MOVAB
                                        04
                                                                    01
                                                                                                                             BRB
                                                                                                                                                                                                                               RUN DOWN IMAGE AND INDIRECT LEVELS
                                                                                                     DCL$RUNDOWN::
                                                                                                                                                  B^10$,RO

PRC_V_DISABL,PRC_W_FLAGS(R11);DISABLE CONTROL_Y/C_AST'S

#PRC_V_VLEVEL,PRC_O_FLAGS(R11);DISABLE CONTROL_Y/C_AST'S

#PRC_V_VLEVEL,PRC_O_FLAGS(R11);20$;IF CLR, NOT AT CONTROL_Y/C LEVEL

RO

PRC_L_SAVAP(R11),RO

GET_ADDRESS OF PREVIOUS PSL

#PSC_$7 CURMOD,(R0);10$;IF CLR, PREVIOUS MODE SUPERVISOR

#CPSL_$M FPD!PSL_$M TP!PSL_$M CM>a-24,3(R0); RESET_BITS_IN_PSL

#EXESETIT_IMAGE_=(R0); RESET_USER_RETURN_ADDRESS

#SS$_CLIFRCEXT,-8(R0); RESET_USER_RETURN_ADDRESS

#SS$_CLIFRCEXT,-8(R0); SET_EXIT_CAUSE_INTO_SAVED_RO

R10,$P,WRK_L_SAVSP(R10); SAVE_RELATIVE_ADDRESS_OF_TOP_OF_STACK

WRK_L_SAVAP(R10),R8; RETRIEVE_PREVIOUS_ARGUMENT_AND_FRAME_POINTE

R8,PRC_L_SAVAP(R10); SAVE_IN_PROCESS_WORK_AREA

R10,WRK_L_RSLEND(R10); CONVERT_PARSE_POINTER_TO_RELATIVE_ADDRESS

R10,WRK_L_RSLEND(R10); CONVERT_PARSE_POINTER_TO_RELATIVE_ADDRESS

R10,WRK_L_RSLEND(R10); CONVERT_PARSE_POINTER_TO_RELATIVE_ADDRESS

GET_ADDRESS_OF_END_OF_ARGUMENT_LIST_+4

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST

CALCULATE_LENGTH_OF_CALL_FRAME_AND_ARGLIST
                                                                   0133
0137
0138
0140
0142
0145
                               96'AF
                                                                                                                                                     B^10$,R0
                                                                                                                             MOVAB
                                                                                                                             SETBIT
                                                       E5
DD
               68
                                                                                                                             BBCC
                                                                                                                             PUSHL
                                                       DE895377022E2283380004
                                                                                                                             MOVL
                        60
                                                                                                                             9108
               40
      03 AO
            00000000
                                                                  014E
0155
015B
0160
0164
0167
016B
016F
0173
0176
                                                                                                                             MOVAB
FB AO
F4 AA
                        0980
                                                                                                                             MOVZUL
                        5E
                                                                                                                             SUBL 3
                                        A88A0077E77999
                                                                                                                             PVOM
                        AA
AA
                                                                                                                             MOVO
                                                                                                                             SUBL
                                                                                                                             SUBL
                              08
                                                                                                                             MOVAB
                                                                                                                                                                                                                                 CALCULATE LENGTH OF CALL FRAME AND ARGLIST CALCULATE NEW TOP OF STACK ADDRESS
                                                                                                                             SUBL
                         SE 6D 5D 59 6E A9 A9
                                                                                                                             SUBL
                                                                                                                                                   R7,(FP),(SP)
R7,(FP),(SP)
R7,R9,FP
R7,(SP),(FP)
R9,WRK_L_SAVSP(R9)
R9,WRK_L_RSLEND(R9)
R9,WRK_L_RSLEND(R9)
                                                                                                                                                                                                                                MOVE CALL FRAME AND ARGUMENT LIST
CALCULATE LENGTH OF COMMAND BUFFER AND ARGL
CALCULATE NEW TOP OF STACK ADDRESS
COLLAPSE STACK REMOVING FIRST COMMAND CONTE
CALCULATE NEW COMMAND STACK POINTER
CONVERT PARSE POINTER TO REAL ADDRESS
                                                                                                                             MOVC
                                                                                                                             SUBL 3
                                                                                                                              SUBL 3
                                                                                                                             MOVE
                                                                                                                             ADDL
                                                                    018D
0191
                                                                                                                              ADDL
                                                                                          341
342
343
344
346
346
346
346
346
346
346
                                                                                                                                                                                                                                 CONVERT END POINTER TO REAL ADDRESS RETURN TO EXESEXIT IMAGE THEN TO 108 OR 208
               86
                                                                                                                              ADDL
                                                                                                                             RET
                                                       D5
13
30
11
                                       AB
05
                                                                                                     108:
                                                                                                                                                     PRC_L_INDEPTH(R11)
                               SC
                                                                                                                             TSTL
                                                                                                                                                                                                                                   INDIRECT LEVEL ZERO?
                                                                                                                                                                                                                                 IF EQL YES
UNSTACK INDIRECT LEVEL
                                                                                                                             BEQL
                                                                                                                                                     DCL SUNSTACK
                                  FE62'
                                                                                                                             BSBW
                                                                                                                             BRB
                                                                                                                             BBCC #PRC V IRUNDWN, PRC B IMGFLAG(R11), 30$; SKIP IF IMAGE ALREADY RUNDOWN SRUNDWN S #PSLSC USER; RUN DOWN IMAGE (THE HARD WAY)
BICB #<PRC M EXEONLY ! PRC M PRIV>, -; SINCE IMAGE IS NOW GONE
                                         00
                                                        E5
                                                                                                     208:
       0E 78 AB
```

IMAGECTRL V04-000

- IMAGE CONTROL RUN DOWN IMAGE AND INDIRECT LEVELS

15-SEP-1984 23:53:05 VAX/VMS Macro V04-00 4-SEP-1984 23:41:00 [DCL.SRC] IMAGECTRL.MAR;1

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OOAF CB

PRC_B_FLAGS2(R11)

H 12

; NO NEED TO PROTECT IT

RSB .DSABL LSB

IMAGECTAL VO4-000		- IMAGE CONTROL SHUT DOWN IMAGE		1 12 15-SEP-1984 23:53:05 4-SEP-1984 23:41:00	VAX/VMS Macro VO4-00 Page 12 [DCL.SRC]IMAGECTRL.MAR;1 (9)
		0184 355 0184 356 0184 357	.SBTTL		
		0184 355 0184 356 0184 357 0184 358 0184 360 0184 361 0184 362 0184 363 0184 363	THIS ROUTINE	IS CALLED TO CLOSE ALL FILES OF THE IMAGE ACTIVATION FILE.	PENED BY THE JUST EXECUTED IMAGE
		0184 362 0184 363	INPUTS:		
		0184 364 0184 365	R10 = 0 R11 = 0	BASE ADDRESS OF COMMAND WORK ARE	A. A.
		0184 367 0184 367	OUTPUTS:		
		0184 355 0184 357 0184 358 0184 360 0184 361 0184 363 0184 363 0184 365 0184 365 0184 367 0184 368 0184 368 0184 371 0184 371 0184 373 0184 375 0184 375 0184 375 0184 375	ALL FIL DATA RE IF ANY AND EOL OPERAT	. SET FOR THE LAST RECORD READ (IMAGE ARE CLOSED BY CALLING RMS-32, STREAM, AND THE IMAGE FILE IS CLOSED. NPUT BUFFER POINTER IS ADJUSTED FOR POSSIBLE FUTURE DCL\$FLUSH
		0184 375 0184 376 0184 377	_	R4 DESTROYED R2 = NUMBER OF DATA RECORDS SK	IPPED IN THE INPUT STREAM.
	53 14 A8 7E 10 A3 36 18 A3 00 00AF CB	0184 378 0184 379 0 10 0184 380 00 0186 381 70 018A 382 E0 018E 383 93 01C3 384 01C5 385	CL\$SHUTDOWN:: BSBB MOVL MOVQ BBS BITB	DCL\$RMSRUNDWN PRC_L_INDINPRAB(R11),R3 RAB\$W_RFA(R3),-(SP) #DEV\$V_REC,RAB\$L_CTX(R3),30\$ #PRC_M_CHAIN!PRC_M_CMD,- PRC_B_FLAGS2(R11)	SHUT DOWN IMAGE RUNDOWN RMS-32 FILES GET ADDRESS OF INDIRECT RAB SAVE RFA OF LAST COMMAND IF SET, RECORD ORIENTED DEVICE CHAIN A/O COMMAND?
	2F 52	12 01C8 386 01CA 387 D6 01CF 388 2 01D1 389 E9 01DA 390 3C 01DD 391 11 01E1 392	BNEQ SETBIT INCL SGET BLBC	RAB\$V_PPF_IND,RAB\$W_ISI(R3) R2 RAB=(R3) R0.25\$	NO SKIP IF EITHER IS PENDING CONVERT TO NONPRIVILEGED ISI INCREMENT NUMBER OF RECORDS SKIPPED GET NEXT RECORD FROM INDIRECT FILE IF LBC FINISHED SAVE LENGTH OF RECORD
	54 22 A3 EC	E9 01DA 390 3C 01DD 391 11 01E1 392	MOVZUL BRB	RABSW_RSZ(R3),R4 20\$	SAVE LENGTH OF RECORD
	52 0D 54 28 B344 64 F48E CA FF A4	01E3 393 01E3 394 2 07 01E8 395 13 01EA 396 9E 01EC 397 94 01F1 398 9E 01F3 399	CLRBIT DECL BEGL MOVAB CLRB MOVAB	RAB\$V_PPF_IND,RAB\$W_ISI(R3) R2 30\$ arab\$L_RBF(R3)[R4],R4 (R4) -1(R4),WRK_L_CHARPTR(R10)	CONVERT BACK TO PRIVILEGED ISI ADJUST FOR LAST RECORD SKIP IF NO RECORDS READ IN GET ADDR. OF END OF LAST RECORD SET EOL IN BUF; ER ADJUST 'GET CHANACTER' POINTER
	10 A3 8E	7D 01F9 400 05 01FD 402 01FE 403	808: MOVQ RSB	(SP)+,RAB\$U_RFA(R3)	RESTORE RFA OF LAST COMMAND

MOVAB CLRL

RSB

.END

WRK_C_MSGBUFSIZ+8(SP),SP

CLEAR COUNT OF RECORDS SKIPPED

RETURN

IMAGECTRL Symbol table	- IMAGE CONTROL	K 12 15-SEP-1984 23:53:05 VAX/VMS Macro V04-00 Page 14 4-SEP-1984 23:41:00 [DCL.SRCJIMAGECTRL.MAR;1 (10
SS.TMP1 SS.TMP2 CLIS_IVVALU CLIS_NORMAL CTLSGL_CLINTOWN CTLSGL_DCLPRSOWN DCLSABORT DCLSALLOCBUF DCLSCONTINUE DCLSDEBUG DCLSGETDVAL DCLSRMSRUNDWN DCLSRUNDOWN DCLSRUNDOWN DCLSSAVE_PRIVS DCLSUNSTACK DEVSV_REC EXESETIT_IMAGE EXESREFLECT HEXTAB PPDSB_NPROCS PPDSC_LENGTH PPDSL_LGI PPDSL_LGI PPDSL_LGI PPDSL_LGI PPDSL_LGI PPDSL_LSTSTATUS PPDSL_LSTSTATUS PPDSL_LSTSTATUS PPDSL_LSTSTATUS PPDSL_CLIREG PPDSQ_CLIREG PPDSQ_CLIREG PPDSQ_CLISYMTBL PPDST_INPDVI PPDST_INPDVI PPDST_OUTDVI PPDST_OUTDVI PPDST_OUTDVI PPDSW_INPFID PPDSW_INPFID PPDSW_INPFID PPDSW_INPFID PPDSW_OUTIFI	= 00000001 = 00030001 ******* X 02 ******* X 02 00000010 RG 02 00000010 RG 02 00000015E RG 02 00000133 RG 02 0000012D RG 02 00000089 RG 02 00000089 RG 02 00000016 RG 02 000000016 RG 02 00000000000000000000000000000000000	PRC G PROMPT PRC X LEMGTM PRC L CUBRKEY PRC L EXYADRA PRC L IDFLNK DOUDOUOUGG PRC L EXYADRA PRC L IDFLNK DOUDOUOUGG PRC L INGACTSTS DOUDOUOUGG PRC L INGACTSTS PRC L INGACTSTS PRC L INGACTSTS PRC L INGACTSTS PRC L INDEPTH DOUDOUOUGG PRC L INDACTSTS PRC L INGACTSTS PRC L INGACTS PRC L INGACTSTS PRC L INGACTS PRC

IMAGECTRL	- IMAGE CONTROL	15-SEP-1984 23:53:05 VAX/VMS Macro V04-00	Page 15
Symbol table		4-SEP-1984 23:41:00 [DCL.SRC]IMAGECTRL.MAR;1	(10)
PRC V YLEVEL PRC W ASTIOSB PRC W ASTRETN PRC W ASTSTATUS PRC W ATTMBX PRC W FLAGS PRC W INPCHAN PRC W ONLEVEL PRC W OUT IF I PRC W OUT IS I PRC W OUT MBX CHN PRC W OUT MBX CHN PRC W OUT MBX FF PRC W OUT MBX FF PRC W OUT MBX FF PRC W PMPT CT L PRC W PMPT CT L PRC W PMPT CT L PRC W PRYMOD PSL\$W FPD PSL\$M FPD PSL\$M FPD PSL\$M FPD PSL\$W CM PSL\$M FPD PSL\$W CM PSL\$M FPD PSL\$W CM PSL\$M FPD PSL\$W CM PSL\$W FP PSL\$V CURMOD PTR B LEVEL PTR B NUMBER PTR B PARMCNT PTR B VALUE PTR C LENGTH PTR C COMDQUAL PTR K ENDLINE PTR L ENT I TY RAB\$L CBF RAB\$W RSZ RESTORE PRIVS SS\$ CLIFRCEXT SS\$ DEBUG SYS\$DELPRC SYS\$GET SYS\$RUNDWN SYS\$SETPRV TESTMODE WRK B CMDOPT WRK B MAXPARM WRK B MAXPARM WRK B PARMSUM W	= 00000008 00000000000000000000000000000	WRK G BUFFER WRC G TRESULT WRC G RESULT WRC C RESULT WRC L ENGTM WRC L CHARPTR WRC L DISALLOW WRC L ERPORTN WRC L EXPANDTR WRC L TAMAGE WRC L TAMAGE WRC L TAMAGE WRC L PAROUT WRC L PROTON WRC L READRIN WRC L READRIN WRC L RESLENT WRC L RESLENT WRC L RAND WRC L RESLENT WRC L SAVAP WRC L	

IMAGECTRL Psect synopsis - IMAGE CONTROL

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! Psect synopsis !

PSECT name	Allocation	PSECT No. Attributes	
. ABS .	00000000 (0.)	00 (0.) NOPIC USF	
\$ABS\$	FFFFFFFC (0.)	01 (1.) NOPIC USF	
DCL\$ZCODE	0000021B (539.)	02 (2.) NOPIC USF	

Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization Command processing Pass 1	11 88 318	00:00:00.05 00:00:00.70	00:00:00.97 00:00:06.64
Pass 2	85 23	00:00:12.28 00:00:01.66 00:00:02.20	00:00:43.86 00:00:06.20 00:00:08.02
Symbol table output Psect synopsis output Cross-reference output	23	00:00:00.20	00:00:00.72 00:00:00.10
Assembler run totals	527	00:00:17.12	00:01:06.52

The working set limit was 1350 pages. 62782 bytes (123 pages) of virtual memory were used to buffer the intermediate code. There were 60 pages of symbol table space allocated to hold 1143 non-local and 19 local symbols. 434 source lines were read in Pass 1, producing 14 object records in Pass 2. 43 pages of virtual memory were used to define 28 macros.

! Macro library statistics !

Macro library name	Macros defined
\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1 \$255\$DUA28:[DCL.OBJ]DCL.MLB;1 \$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \$255\$DUA28:[SYSLIB]STARLET.MLB;2	9
_\$255\$DUAZ8:LSYSLIBJSTARLET.MLB;2	15
TOTALS (all libraries)	22

1370 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: IMAGECTRL/OBJ=OBJ\$: IMAGECTRL MSRC\$: IMAGECTRL/UPDATE=(ENH\$: IMAGECTRL) + EXECML\$/LIB+LIB\$: DCL/LIB+SYS\$LIBRARY: SYSBLDMLB/L

0070 AH-BT13A-SE

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